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"Its approximate ephemeris, with the last observations, are herewith enclosed.

"I have the honour to be,

"Respectfully, &c.,

"M. F. MAURY,

"*Lieut. U.S.N.*"

"*Rear-Admiral W. H. Smyth, R.N.*"

### Ephemeris of Euphrosyne.

M. T. Washington.	$\alpha$ .	$\delta$ .
1854, Oct. 19.	$^{\text{h}} \text{ } ^{\text{m}} \text{ } ^{\text{s}}$	$^{\circ} \text{ } ^{\prime} \text{ } ^{\prime\prime}$
	9 23 41.9	1 12 15.11      -1 56 7.21

Elements of Euphrosyne, computed by Prof. Keith, from observations of Sept. 2nd, 6th and 10th.

M. 13° 36' 33.3	Sept. 2.721	M. T. Greenwich.
$\Pi$ 352 5 50.6		M. Equ. 1854 0.
$\Lambda$ 33 29 21.7		
$i$ 22 39 13.6		
$\phi$ 4 22 30.2		
$\log \alpha$ 0.469530		
$\log \mu$ 2.845712		

### Ephemeris for October.

M. T. Berlin.	$\alpha$ .	$\delta$ .	$\log r$ .	$\log \Delta$ .
1854, Oct. 19.5	$^{\text{h}} \text{ } ^{\text{m}} \text{ } ^{\text{s}}$	$^{\circ} \text{ } ^{\prime} \text{ } ^{\prime\prime}$		
23.5	1 7 49	1 59 21	0.43828	0.24622
27.5	1 3 49	1 47 29	0.43850	0.24937
31.5	1 0 3	1 33 49	0.43873	0.25345
		1 18 18	0.43897	0.25861

## II. Letter from W. GRAVATT, Esq., F.R.S., to Col. SABINE, Treas. R.S.

The writer announced the arrival in London of the Swedish Calculating Machine constructed by Mr. SCHEUTZ.